AMENDMENTS TO THE CLAIMS

 (Currently Amended) A moving object equipped with ultra-directional speaker, said moving object comprising:

a voice recognition and generation device for performing voice recognition on a voice detected by a voice detecting device, and for generating a voice signal;

a modulator for modulating an ultrasonic carrier signal with an input electric signal from an audible sound signal-source and the voice signal from the voice recognition and generation device so as to output a modulated voice signal;

an automatic gain control device for measuring a distance between said moving object and a target and controlling gain adjustment of a sound level of said modulated voice signal based on said distance between said moving object and said target; and

an emitter for emitting-an-output-signal-of-said-modulator the modulated voice signal adjusted by the automatic gain control device,

wherein when starting or ending generating said voice signal, said voice recognition and generation device sends a talk event signal to the automatic gain control device so as to respectively start measuring or stop measuring said distance between said moving object and said target.

(Currently Amended) The moving object equipped with ultra-directional speaker
according to Claim 1, eharacterized—in-thatwherein said moving object comprises—a voice
detecting-means, a target direction detecting means-device for detecting a direction of a target to
which a voice is to be provided, and an emitter orientation control means-device for controlling

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the emitter so that the emitter is oriented toward the target which is identified by said target

direction detecting meansdevice.

(Currently Amended) The moving object equipped with ultra-directional speaker

according to Claim 1, characterized in that wherein the emitter is provided with two or more

ultrasonic vibration elements, and an ultrasonic receive sensor or an ultrasonic transmit sensor

consists of at least one of said two or more ultrasonic vibration elements.

4. (Currently Amended) The moving object equipped with ultra-directional speaker

according to Claim 3, characterized in that said moving object comprises a sound-level

adjustment means for adjusting a level of an output voice from the emitter, and a distance

detecting means for transmitting an ultrasonic signal to the target from an ultrasonic vibration

element, and for determining wherein said automatic gain control device determines a time that

has elapsed before receiving a reflection of said ultrasonic signal from said target so as to

measure a distance to said target on the basis of the determined time, and characterized in that

said sound level adjustment means adjusts the level of the output voice according to an output of

said distance detecting means.

5. (Currently Amended) The moving object equipped with ultra-directional speaker

according to Claim 4, characterized in that said moving object comprises an automatic gain

control means for controlling gain adjustment of the level of the output voice adjusted by the

sound level adjustment means according to the output of the distance detecting means further

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comprising a gain-adjustable amplifier connected to said automatic gain control device, a gain of

said gain-adjustable amplifier being adjusted based on said distance between said moving object

and said target such that the sound level of said modulated voice signal is adjusted.

(Cancelled)

(Currently Amended) A method of controlling an output gain of a moving object

equipped with an ultra-directional speaker for transmitting a modulated signal which is obtained

by modulating an ultrasonic carrier signal with an audible sound signal, said method comprising

the steps of:

transmitting an ultrasonic signal to a target by way of said ultra-directional speaker, and

then determining a time that has elapsed before receiving a reflection of said ultrasonic signal

from said target;

estimating a distance between said moving object and to-said-said target on the basis of

said determined time; and

generating a voice signal by a voice recognition and generation device to be modulated as

the modulated signal;

adjusting a gain of a sound level of said modulated signal based on said estimated

distance between said moving object and said target, determining a gain value of said ultra-

directional speaker according to said estimated distance so that a voice output of said ultra-

directional speaker can be transmitted to said target

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wherein when starting or ending generating said voice signal, said voice recognition and

generation device sends a talk event signal so as to respectively start or end the estimating step.

8. (Currently Amended) A program that causes a computer to function as a control

system for controlling a moving object equipped with an ultra-directional speaker for

transmitting a modulated signal which is obtained by modulating an ultrasonic carrier signal with

an audible sound signal, wherein said program causes said computer to function as

a sound level adjustment means for adjusting a level of a voice output of said ultra-

directional-speaker.

a voice recognition and generation device for performing voice recognition on a voice

detected by a voice detecting device, and for generating a voice signal to be modulated as the

modulated signal;

a distance detecting means for transmitting an ultrasonic signal to a target by way of said

ultra-directional speaker, and for determining a time that has elapsed before receiving a reflection

of said ultrasonic signal from said target so as to measure a distance to distance between said

moving object and said target on the basis of the determined time; and

an automatic gain control means for controlling a gain adjustment of the level of the

voice output adjusted by said sound level-adjustment means according to an output of said

distance detecting means so that the voice output of said ultra directional speaker can be

transmitted to said target controlling gain adjustment of a sound level of said modulated signal

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based on said distance between said moving object and said target,

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wherein when starting or ending generating said voice signal, said voice recognition and generation device sends a talk event signal to the distance detecting means so as to respectively start measuring or stop measuring said distance between said moving object and said target.

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